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DATE MAILED: 01/28/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

151 7590 01/28/2008 HOFFMANN-LA ROCHE INC. PATENT LAW DEPARTMENT 340 KINGSLAND STREET

NUTLEY, NJ 07110

EXAMINER

DANG, IAN D

ART UNIT PAPER NUMBER

1647

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,449	04/01/2004	Yvo Graus	21655 US2	8584

 ${\tt TITLE~OF~INVENTION: ANTIBODIES~AGAINST~INSULIN-LIKE~GROWTH~FACTOR~1~RECEPTOR~AND~USES~THEREOF}$

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	04/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including ad below or directed off	for transmitting the IS ing the Patent, advance nerwise in Block 1, by	SUE FEE and PUBLIC orders and notification (a) specifying a new or	of m	ON FEE (if requir naintenance fees wi pondence address;	ed). E ill be and/or	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	tould be completed where correspondence address as rate "FEE ADDRESS" for
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PATENT LAW 340 KINGSLAN	LA ROCHE INC DEPARTMENT ID STREET	V2008		Lber	Certi	ificate	of Mailing or Trans	
NUTLEY, NJ 07	7110							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/815,449	04/01/2004		Yvo Graus				21655 US2	8584
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	04/28/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
DANG,		1647	530-387100					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form and. Use of a Customer A TO BE PRINTED O	or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil	ingle or a attor Il be p or typ he pa g an a	e firm (having as a gent) and the name neys or agents. If n printed. e) tent. If an assigne- assignment.	memb s of u o nam e is id	er a 2o to e is 3	cument has been filed for
Please check the appropr. 4a. The following fee(s):	are submitted:		4b. Payment of Fee(s): (Plea:	se first reapply any	y prev	iously paid issue fee	up entity Government
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5. Change in Entity Star	tus (from status indicate s SMALL ENTITY state		☐ b. Applicant is no	long	ger claiming SMAL	LENT	TTY status. Sec 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other th rk Office.	nan th	ne applicant; a regis	tered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name Registration No								
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	CFR 1.311. The information U.S.C. 122 and 37 CF USPTO. Time will varden, should be sent to D NOT SEND FEES OF	tion is required to obtain R 1.14. This collection i ry depending upon the i the Chief Information O R COMPLETED FORM	or re s esti indivi iffice S TC	etain a benefit by th imated to take 12 m idual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment Traden SENI	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Deps O TO: Commissioner t	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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PATENT LAW D			ART UNIT	PAPER NUMBER	
340 KINGSLANI NUTLEY, NJ 071		1647 DATE MAIL ED: 01/28/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 414 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 414 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/815,449	GRAUS ET AL.	
Examiner	Art Unit	
IAN DANG	1647	

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to the amendment filed 10/15/2007.
- 2. The allowed claim(s) is/are 6-11 and 23-26 (renumbered as claims 1-10).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date 02/03/2005
- ☐ Examiner's Comment Regarding Requirement for Deposit. of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

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Art Unit: 1647

DETAILED ACTION

Information Disclosure Statement

The reference C9 in the information disclosure statement (IDS) submitted on 02/03/2005 has been considered by the Examiner.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Wildman on Thursday, December 20, 2007.

The application has been amended as follows:

In Claim 6, delete: "An isolated antibody, wherein said antibody comprises:

- a) an antibody heavy chain having CDRs comprising CDR1 corresponding to amino acids 31 to 35 of SEQ ID NO:1, CDR2 corresponding to amino acids 50 to 66 of SEQ ID NO:1, and CDR3 corresponding to amino acids 98 to 108 of SEQ ID NO:1, wherein amino acid 31 can be asparagine or serine, amino acid 66 can be glycine or can be deleted, and amino acid 104 can be ollutamic acid or aspartic acid: and
- b) an antibody light chain having CDRs comprising CDR1 corresponding to amino acids 18 to 34 or 24 to 34 of SEQ ID NO:2, CDR2 corresponding to amino acids 50 to 56 of SEQ ID NO:2, CDR3 corresponding to and amino acids 89 to 98 of SEQ ID NO:2, wherein amino acid 96 can be proline or isoleucine, and amino acid 98 can be phenylalanine or can be deleted."

Application/Control Number: 10/815,449

Art Unit: 1647

Insert therefore -- An isolated antibody, wherein said antibody comprises:

a) an antibody heavy chain comprising amino acids 31 to 35 of SEQ ID NO:1 for CDR1, amino acids 50 to 66 of SEQ ID NO:1 for CDR2, and amino acids 98 to 108 of SEQ ID NO:1 for CDR3, wherein amino acid 31 can be asparagine or serine, amino acid 66 can be glycine or can be deleted, and amino acid 104 can be glutamic acid or aspartic acid: and

b) an antibody light chain comprising amino acids 18 to 34 or 24 to 34 of SEQ ID NO:2 for CDR1, amino acids 50 to 56 of SEQ ID NO:2 for CDR2, and amino acids 89 to 98 of SEQ ID NO:2 for CDR3, wherein amino acid 96 can be proline or isoleucine, and amino acid 98 can be phenylalanine or can be deleted, and wherein the antibody binds to insulin growth factor receptor I (IGF-IR) and inhibits the binding of insulin like growth factor I (IGF-II) to IGF-IR.—

In claim 7, line 12, after the word "region" insert –, and wherein the antibody binds to insulin growth factor receptor I (IGF-IR) and inhibits the binding of insulin like growth factor I (IGF-I) and insulin like growth factor II (IGF-II) to IGF-IR.–

In Claim 10, delete: "The antibody of claim 6 wherein said antibody is obtainable from a hybridoma cell line consisting of the group selected from <IGF-1R> HuMab Clone 1a, <IGF-1R> HuMab Clone 23, and <IGF-1R HuMab Clone 8." Insert therefore -- The antibody of claim 6 wherein said antibody is obtainable from a hybridoma cell line selected from the group consisting of <IGF-1R> HuMab Clone 1a, <IGF-1R> HuMab Clone 23, and <IGF-1R> HuMab Clone 8.--

Application/Control Number: 10/815,449

Art Unit: 1647

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to lan Dang whose telephone number is (571) 272-5014. The examiner can normally be reached on Monday-Friday from 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath Rao can be reached on (571) 272-0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

lan Dang Patent Examiner Art Unit 1647 December 20, 2007